L Number	Hits	Search Text	DB	Time stamp
82	637	((piezo or piezo$1electric or piezoelectric or bimorph) same elastic near3 deform$6)	USPAT; US-PGPUB; EPO; JPO	2004/11/03 12:08
84	6	(((piezo or piezo$1electric or piezoelectric or bimorph) same elastic near3 deform$6)) and (magnetic adj dis$1 adj (drive or apparatus))	USPAT; US-PGPUB; EPO; JPO	2004/11/03 12:10
98	1	((thermal adj record$3 same heat adj element) and ((capacitive or capacitance) adj actuator))	USPAT; US-PGPUB; EPO; JPO	2004/11/03 13:04
101	3	360/59,294.1,294.2,294.3,294.4,294.5,294.6.ccls. and ((capacitive or capacitance) adj actuator)	USPAT; US-PGPUB; EPO; JPO	2004/11/03 13:06
-	7902	(360/75,76,59).CCLS.	USPAT; US-PGPUB; EPO; JPO	2004/10/29 08:31
-	709263	(micro-actuator$3 microactuat$3 microposition$3 subactuat$3 ((actuat$3 position$3 driver$1 motor$1) near3 (auxiliary second$4 fin$2 micro sub dual piezo piezoelectric$4 pzt bimorph piggyback$3 (piggy adj back$3))))	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:54
-	418665	(((dis$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID (magnetic storage drive$1 assembly) near2 (disk$5 disc$1 media medium) (storage near2 drive$1))	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:40
-	56948	((micro-actuator$3 microactuat$3 microposition$3 subactuat$3 ((actuat$3 position$3 driver$1 motor$1) near3 (auxiliary second$4 fin$2 micro sub dual piezo piezoelectric$4 pzt bimorph piggyback$3 (piggy adj back$3))))) and ((((dis$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID (magnetic storage drive$1 assembly) near2 (disk$5 disc$1 media medium) (storage near2 drive$1)))	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:41
-	925	((360/75,76,59).CCLS.) and (((micro-actuator$3 microactuat$3 microposition$3 subactuat$3 ((actuat$3 position$3 driver$1 motor$1) near3 (auxiliary second$4 fin$2 micro sub dual piezo piezoelectric$4 pzt bimorph piggyback$3 (piggy adj back$3))))) and ((((dis$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID (magnetic storage drive$1 assembly) near2 (disk$5 disc$1 media medium) (storage near2 drive$1))))	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:41
-	3	(((360/75,76,59).CCLS.) and (((micro-actuator$3 microactuat$3 microposition$3 subactuat$3 ((actuat$3 position$3 driver$1 motor$1) near3 (auxiliary second$4 fin$2 micro sub dual piezo piezoelectric$4 pzt bimorph piggyback$3 (piggy adj back$3))))) and ((((dis$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID (magnetic storage drive$1 assembly) near2 (disk$5 disc$1 media medium) (storage near2 drive$1))))) and (heat or heater) adj element	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:41

-	3	(((360/75,76,59).CCLS.) and (((micro-actuator$3 microactuat$3 microposition$3 subactuat$3 ((actuat$3 position$3 driver$1 motor$1) near3 (auxiliary second$4 fin$2 micro sub dual piezo piezoelectric$4 pzt bimorph piggyback$3 (piggy adj back$3))))) and ((((dis$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID (magnetic storage drive$1 assembly) near2 (disk$5 disc$1 media medium) (storage near2 drive$1))))) and ((heat or heater) adj element)	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:50
-	6522	(magnetic adj (disk or disc or storage or medi$2)) same slider	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:52
-	13	((magnetic adj (disk or disc or storage or medi$2)) same slider) and ((heat or heater) adj element)	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:53
-	123401	piezo$1electric or piezoelectric	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:54
-	381	((360/75,76,59).CCLS.) and (piezo$1electric or piezoelectric)	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:54
-	54	(((360/75,76,59).CCLS.) and (piezo$1electric or piezoelectric)) and (offset$4)	USPAT; US-PGPUB; EPO; JPO	2004/10/27 17:05
-	1	(((360/75,76,59).CCLS.) and (piezo$1electric or piezoelectric)) and yaw adj angle	USPAT; US-PGPUB; EPO; JPO	2004/11/01 13:07
-	7	(((360/75,76,59).CCLS.) and (piezo$1electric or piezoelectric)) and yaw	USPAT; US-PGPUB; EPO; JPO	2004/10/27 16:58
-	4	((((360/75,76,59).CCLS.) and (piezo$1electric or piezoelectric)) and (offset$4)) and (heat or heater)	USPAT; US-PGPUB; EPO; JPO	2004/10/27 17:06
-	201	((piezo or piezo$1electric or piezoelectric or bimorph) near3 offset$4)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 11:56
-	3	(((piezo or piezo$1electric or piezoelectric or bimorph) near3 offset$4)) and ((heat or heater) adj element)	USPAT; US-PGPUB; EPO; JPO	2004/11/03 12:04
-	135128	piezo or piezo$1electric or piezoelectric or bimorph	USPAT; US-PGPUB; EPO; JPO	2004/11/03 14:07
-	8541	(360/75,76,59,77.02,77.03).CCLS.	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:05
-	192	(369/13.02,13.33).CCLS.	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:00
-	518	(piezo or piezo$1electric or piezoelectric or bimorph) and ((360/75,76,59,77.02,77.03).CCLS.)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:00
-	473	((piezo or piezo$1electric or piezoelectric or bimorph) and ((360/75,76,59,77.02,77.03).CCLS.)) and (align$4 or adjust$4 or track$4 or direction)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:01

-	182	(((piezo or piezo$1electric or piezoelectric or bimorph) and ((360/75,76,59,77.02,77.03).CCLS.)) and (align$4 or adjust$4 or track$4 or direction)) and (magnetic adj dis$1)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:02
-	1	((369/13.02,13.33).CCLS.) and (((piezo or piezo$1electric or piezoelectric or bimorph) and ((360/75,76,59,77.02,77.03).CCLS.)) and (align$4 or adjust$4 or track$4 or direction))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:02
-	9984	(piezo or piezo$1electric or piezoelectric or bimorph) adj actuator	USPAT; US-PGPUB; EPO; JPO	2004/10/28 15:47
-	315	((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (magnetic adj dis$1)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:04
-	29	((360/75,76,59,77.02,77.03).CCLS.) and (((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (magnetic adj dis$1))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:05
-	8653	(360/75,76,59,77.02,77.03,78.05).CCLS.	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:05
-	40	(((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (magnetic adj dis$1)) and ((360/75,76,59,77.02,77.03,78.05).CCLS.)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:16
-	3718	((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (mirror or lens or beam)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:18
-	192	((((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (mirror or lens or beam)) and (magnetic adj dis$1)) and actuator	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:18
-	192	(((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (mirror or lens or beam)) and (magnetic adj dis$1)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 12:25
-	116	((((piezo or piezo$1electric or piezoelectric or bimorph) adj actuator) and (mirror or lens or beam)) and (magnetic adj dis$1)) and (laser or (heat adj element))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 15:42
-	391	369/13.33,13.32,13.13,13.12,13.11,300.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:29
-	13	((piezo or piezo$1electric or piezoelectric or bimorph) near10 (magnet$2 near2 optic$2) near5 (head or slider$1))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:14
-	247	((piezo or piezo$1electric or piezoelectric or bimorph) near10 (magnet$2 near2 optic$2))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:02
-	83	(((piezo or piezo$1electric or piezoelectric or bimorph) near10 (magnet$2 near2 optic$2))) and (head or slider$1)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:13
-	7839	((piezo or piezo$1electric or piezoelectric or bimorph) near5 (head or slider$1))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:30
-	14	369/13.33,13.32,13.13,13.12,13.11,300.ccls. and (((piezo or piezo$1electric or piezoelectric or bimorph) near5 (head or slider$1)))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:18

-	103	369/300.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/29 10:01
-	336	369/13.33,13.32,13.13,13.12,13.11,300.ccls. and (slider or head)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:55
-	44	(piezo or piezo$1electric or piezoelectric or bimorph) and (369/13.33,13.32,13.13,13.12,13.11,300.ccls. and (slider or head))	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:52
-	0	(piezo or piezo$1electric or piezoelectric or bimorph) and 369/13.33,13.11,13.1	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:52
-	46	(piezo or piezo$1electric or piezoelectric or bimorph) and 369/13.33,13.32,13.13,13.12,13.11,300.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:52
-	191	(360/77.16).CCLS.	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:56
-	190	((360/77.16).CCLS.) and (head or slider)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:56
-	14	(((360/77.16).CCLS.) and (head or slider)) and (heat or heater)	USPAT; US-PGPUB; EPO; JPO	2004/10/28 16:57
-	37	369/13.12.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/29 09:08
-	28636	((write or record$3) adj head) same (adjust$3 or position$3 or align$3 or track$3)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 09:13
-	616	(((write or record$3) adj head) same (adjust$3 or position$3 or align$3 or track$3)) and (heat near5 area)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 09:14
-	7	(((((write or record$3) adj head) same (adjust$3 or position$3 or align$3 or track$3)) and (heat near5 area)) and (piezo or piezo$1electric or piezoelectric or bimorph)) and slider	USPAT; US-PGPUB; EPO; JPO	2004/10/29 09:15
-	126	(((((write or record$3) adj head) same (adjust$3 or position$3 or align$3 or track$3)) and (heat near5 area)) and (piezo or piezo$1electric or piezoelectric or bimorph)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 09:50
-	28	thermal adj record$3 same heat adj element	USPAT; US-PGPUB; EPO; JPO	2004/11/03 13:03
-	4	((magnet$2 near2 optic) same (align$3 or adjust$3) near2 head)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 10:04
-	6	("5986978" | "6016290" | "6243288" | "6243350" | "6307818" | "6507540").PN.	USPAT	2004/10/29 10:06
-	2	((magnet$2 near2 optic adj dis$1) same (align$3 or adjust$3) near2 head)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 11:26
-	2	(("6324130") or ("6275454")).PN.	USPAT; US-PGPUB; EPO; JPO	2004/10/29 10:31

-	1034	360/59,294.1,294.2,294.3,294.4,294.5,294.6.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/29 11:01
-	225	360/59,294.1,294.2,294.3,294.4,294.5,294.6.ccls. and ((position$3 or align$3 or track$3) near head and slider)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 11:02
-	332	360/59,294.1,294.2,294.3,294.4,294.5,294.6.ccls. and ((position$3 or align$3 or track$3) near head)	USPAT; US-PGPUB; EPO; JPO	2004/11/03 13:05
-	18	(360/59,294.1,294.2,294.3,294.4,294.5,294.6.ccls. and ((position$3 or align$3 or track$3) near head)) and (magnet$2 near2 optic)	USPAT; US-PGPUB; EPO; JPO	2004/10/29 11:03